

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P148373

Luminaire Tested: **TLM-F02-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148373
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F02-LED-E1-5XQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

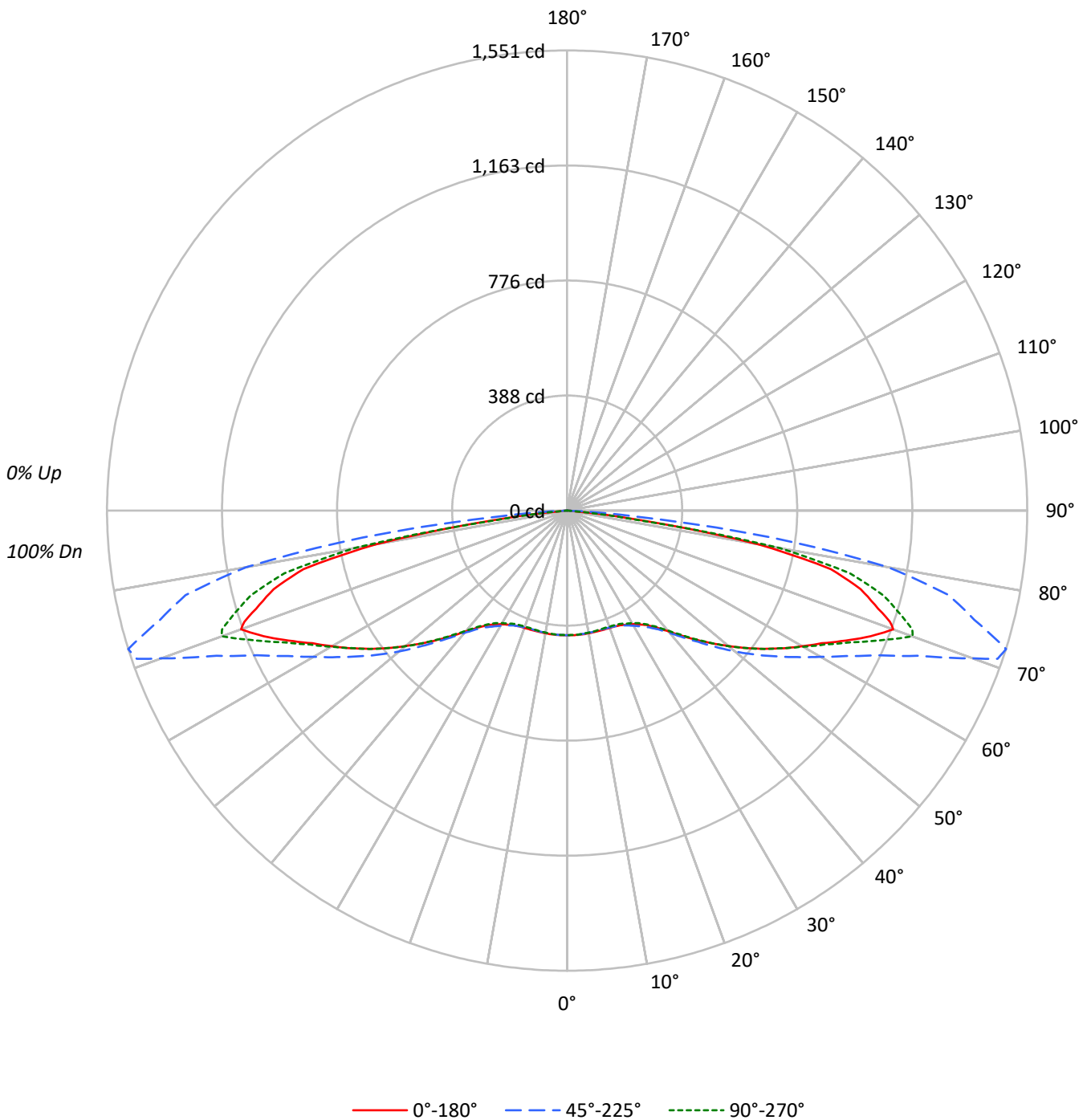
Lumens per Lamp: N/A
Luminaire Lumens: 4431.8 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13696	13696	13696
5°	13772	13749	13739
10°	13901	13845	13825
15°	14179	14092	14054
20°	14607	14547	14447
25°	15339	15382	15152
30°	16655	16870	16497
35°	18771	19133	18651
40°	22635	22899	22448
45°	28388	28886	28286
50°	36008	37480	36084
55°	46159	48667	46250
60°	59632	64323	59860
65°	79967	89012	81132
70°	111543	138971	118181
75°	129051	179020	139082
80°	122809	206229	136240
85°	9992	83607	6512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	0.9
10°-20°	118.4	2.7
20°-30°	198.2	4.5
30°-40°	302.2	6.8
40°-50°	482.5	10.9
50°-60°	741.9	16.7
60°-70°	1080.3	24.4
70°-80°	1216.9	27.5
80°-90°	251.2	5.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	356.6	8.0
0°-40°	658.8	14.9
0°-60°	1883.3	42.5
0°-90°	4431.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	421	420	420	420	420	40
15°	420	419	417	416	416	119
25°	426	427	427	423	421	199
35°	471	475	480	472	468	301
45°	615	615	626	616	613	480
55°	812	814	856	818	813	730
65°	1036	1040	1153	1055	1051	1032
75°	1024	1089	1420	1179	1104	1043
85°	27	70	223	57	17	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9
2.5°	420.6	420.8	420.7	420.5	420.6	420.5	420.2	420.2	419.4	419.8	420.5
5°	420.6	420.4	420.3	420.2	420.1	420.4	420.1	419.8	419.6	419.9	419.6
7.5°	420.4	419.9	419.6	419.6	419.7	419.8	419.4	419.0	419.3	419.0	418.5
10°	419.7	419.3	419.4	419.0	419.1	419.0	418.5	418.2	418.4	418.0	417.4
12.5°	419.9	419.3	419.2	419.0	418.9	418.8	418.2	417.6	417.7	417.4	416.9
15°	419.9	419.6	419.4	419.0	418.9	418.6	417.9	417.7	417.7	417.3	416.6
17.5°	420.1	419.9	419.9	419.3	419.1	419.0	418.2	417.8	418.2	417.4	417.0
20°	420.8	420.6	420.7	420.4	419.9	419.9	419.3	419.1	419.2	419.1	417.8
22.5°	422.2	422.2	422.4	422.4	422.2	422.4	421.9	421.9	422.0	422.0	421.0
25°	426.2	426.0	426.3	426.3	426.4	427.2	426.9	426.8	427.3	427.4	426.3
27.5°	433.6	433.4	433.6	433.8	434.4	435.5	435.2	435.6	436.5	436.3	435.3
30°	442.2	442.0	442.5	443.2	443.7	445.4	444.6	446.4	447.2	447.9	447.2
32.5°	454.8	454.8	455.8	456.2	457.3	458.9	459.2	460.5	461.6	462.8	462.0
35°	471.4	471.2	472.0	472.9	474.1	475.6	476.2	478.1	479.7	480.5	479.0
37.5°	497.0	495.8	497.2	497.7	498.8	499.1	500.7	503.0	504.8	504.6	503.5
40°	531.6	531.4	530.8	530.1	531.7	532.3	532.3	535.4	538.2	537.8	537.7
42.5°	572.0	571.0	570.3	570.3	571.2	571.4	575.0	577.3	579.4	579.8	579.3
45°	615.4	614.4	614.6	614.2	614.5	616.0	618.1	622.4	626.1	626.2	624.3
47.5°	662.2	658.9	661.4	657.8	660.0	661.2	666.4	672.7	679.2	680.4	678.6
50°	709.6	709.2	709.0	708.2	709.3	711.8	718.2	728.1	734.4	738.6	735.8
52.5°	761.3	759.6	758.8	757.6	758.6	763.6	772.6	781.2	792.4	797.2	793.3
55°	811.7	811.1	808.1	808.0	810.2	818.0	827.7	838.3	850.5	855.8	854.4
57.5°	863.4	860.1	859.2	857.8	862.2	869.5	881.5	900.5	913.2	919.2	915.7
60°	914.1	911.6	909.6	909.1	912.2	922.4	939.6	962.4	978.1	986.0	980.4
62.5°	968.4	966.8	964.5	961.8	968.2	981.4	1002.7	1028.0	1051.1	1060.9	1052.4
65°	1036.1	1032.7	1030.2	1026.8	1032.0	1048.5	1075.3	1111.0	1142.0	1153.3	1147.3
67.5°	1107.3	1104.2	1104.4	1102.4	1111.6	1134.5	1169.1	1217.5	1259.1	1278.5	1267.1
70°	1169.6	1171.3	1171.8	1180.3	1196.3	1231.2	1288.7	1364.6	1427.6	1457.2	1445.0
71°	1151.2	1155.1	1161.0	1169.8	1197.4	1238.7	1317.3	1409.2	1484.4	1534.6	1517.8
72.5°	1099.2	1101.6	1104.6	1118.0	1149.3	1203.8	1284.8	1389.8	1486.5	1551.4	1531.9
75°	1024.0	1026.2	1027.2	1036.6	1065.1	1112.7	1186.8	1279.9	1365.3	1420.5	1415.1
77.5°	910.4	910.7	918.9	933.4	965.3	1019.8	1097.8	1194.4	1274.7	1317.6	1290.4
80°	653.8	649.4	657.7	676.4	715.9	778.3	858.3	968.6	1057.6	1097.9	1055.6
82.5°	248.8	262.2	283.5	314.3	327.7	397.1	471.7	536.5	611.5	695.4	674.3
85°	26.7	30.0	37.7	46.8	59.1	81.8	113.0	154.2	190.1	223.4	198.3
87.5°	10.0	10.2	11.4	13.1	13.4	14.0	14.9	17.3	16.2	13.9	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9
2.5°	419.9	420.0	419.9	420.0	420.0	419.6	419.7	419.4
5°	419.8	419.4	419.5	419.6	419.5	419.8	419.4	419.6
7.5°	419.2	418.5	418.7	418.7	418.5	418.9	418.6	418.5
10°	418.0	417.2	417.6	417.4	417.2	417.3	417.4	417.4
12.5°	417.0	416.4	416.6	416.4	416.3	416.6	416.5	416.6
15°	416.8	415.8	415.7	415.5	415.6	415.8	415.8	416.2
17.5°	416.6	415.4	415.2	415.0	415.2	415.6	415.7	415.4
20°	417.2	416.3	416.1	415.8	415.7	416.3	416.2	416.2
22.5°	420.5	419.3	419.2	418.3	417.9	418.3	418.1	418.0
25°	425.7	424.3	423.9	422.6	421.6	421.6	421.3	421.0
27.5°	435.2	433.0	432.6	431.5	430.2	430.4	429.8	429.6
30°	446.0	444.2	442.5	441.1	439.5	439.0	438.1	438.0
32.5°	460.3	458.2	456.2	454.4	452.3	451.5	450.1	449.4
35°	477.8	475.0	472.7	471.4	469.4	468.3	467.4	468.4
37.5°	502.3	499.0	497.8	496.3	494.9	493.3	493.6	493.3
40°	536.2	533.2	532.1	529.4	529.0	527.2	528.4	527.2
42.5°	578.2	572.6	571.8	569.7	569.0	568.0	568.4	567.6
45°	623.8	618.8	617.9	614.5	614.7	612.2	613.1	613.2
47.5°	675.1	669.9	665.6	663.2	662.2	660.7	661.6	661.4
50°	728.1	721.0	716.2	711.5	709.4	710.0	708.3	711.1
52.5°	785.0	774.4	767.7	763.1	759.2	760.0	760.2	761.0
55°	843.9	830.4	820.6	814.7	811.1	811.4	812.4	813.3
57.5°	903.1	886.2	873.0	864.2	861.8	862.9	862.9	862.8
60°	964.5	944.3	927.2	917.2	915.2	914.6	919.1	917.6
62.5°	1030.4	1006.2	988.5	975.8	972.8	974.8	979.0	978.0
65°	1117.9	1084.4	1061.6	1049.0	1043.8	1045.9	1051.4	1051.2
67.5°	1230.6	1183.8	1153.7	1137.4	1133.7	1136.2	1139.3	1142.2
70°	1399.3	1332.2	1289.3	1254.1	1239.0	1236.1	1239.1	1239.2
71°	1458.6	1381.6	1313.2	1270.2	1245.5	1235.1	1235.9	1230.7
72.5°	1456.2	1361.3	1281.3	1236.4	1202.0	1193.6	1189.6	1183.2
75°	1358.0	1272.6	1203.2	1154.1	1121.0	1111.2	1104.0	1103.6
77.5°	1231.6	1168.6	1092.0	1040.1	999.8	983.4	976.1	975.9
80°	990.0	895.6	839.7	808.4	759.8	745.7	730.9	725.3
82.5°	598.7	467.8	380.4	338.0	314.6	259.1	232.4	220.0
85°	139.5	99.1	68.3	44.8	32.2	25.7	19.7	17.4
87.5°	9.4	7.4	6.6	5.4	4.1	4.0	2.4	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)